PATENT COOPERATION TREATY

PCT

INTERNATIONAL PRELIMINARY REPORT ON PATENTABIL

(Chapter II of the Patent Cooperation Treaty)

(PCT Artcle 36 and Rule 70)

Applicant's or agent's file reference OPP041948KR	FOR FURTHER ACT	TION	See Form PCT/IPEA/416				
International application No.	International filing date(a	day/month/year)	Priority date (day/month/year)				
PCT/KR2005/000615	04 MARCH 2005 (04.03.2005)	05 MARCH 2004 (05.03.2004)				
International Patent Classification (H04L 9/32(2006.01)i	IPC) or national classification a	and IPC	·				
Applicant							
Electronics and Telecomm	unications Research Ins	titute et al					
1. This report is the international Authority under Article 35 and	al preliminary examination repond transmitted to the applicant	ort, established by thi according to Article	is International Preliminary Examining 36.				
2. This REPORT consists of a	This REPORT consists of a total of 3 sheets, including this cover sheet.						
This report is also accompanied by ANNEXES, comprising: a. (sent to the applicant and to the International Bureau) a total of sheets, as follows: sheets of the description, claims and/or drawings which have been amended and are the basis for this report and/or sheets containing rectifications authorized by this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions).							
sheets which supersede earlier sheets, but which this Authority considers contain an amendment that goes beyond the disclosure in the international application as filed, as indicated in item 4 of Box No. I and the Supplemental Box. b. (sent to the International Bureau only) a total of (indicate type and number of electronic carrier(s)) containing a sequence listing and/or tables related thereto, in electronic form only, as indicated in the Supplemental Box relating to Sequence Listing (see Section 802 of the Administrative Instructions).							
4. This report contains indicati	ons relating to the following ite	ems:					
Box No. I Basis	of the report						
Box No. II Priori	у						
Box No. III Non-e	Box No. III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability						
Box No. IV Lack							
Box No. V Reason citation							
Box No. VI Certa	Box No. VI Certain documents cited						
Box No. VII Certai	Box No. VII Certain defects in the international application						
Box No. VIII Certain observations on the international application							
Date of submission of the demand		Date of completio	n of this report				
05 OCTOBER 2005 (05.10.2005)		22 JUNE	22 JUNE 2006 (22.06.2006)				
Name and mailing address of the	IPEA/KR	Authorized office					
Korean Intellectual Property Office 920 Dunsan-dong, Seo-gu, Daejeon 302-701, Republic of Korea		NA, Yong S	Soo				
Facsimile No. 82-42-472-7140		Telephone No. 8	32-42-481-8456				

- - Form-PCT/IPEA/409 (cover-sheet) (April 2005)

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No.

PCT/KR2005/000615

Box No. I	Basis of the report	·
	egard to the language, this report is based on the international application in the language is indicated under this item. This report is based on translations from the original language into the following language which is the language of a translation furnished for the purposes of: international search (under Rules 12.3 and 23.1(b)) publication of the international application (under Rule 12.4) international preliminary examination (under Rules 55.2 and/or 55.3)	
to the annex	regard to the elements of the international application, this report is based on (replacement receiving Office in response to an invitation under Article 14 are referred to in this reorged to this report): the international application as originally filed/furnished the description:	rt as "originally filed" and are not
	pages	as originally filed/furnished
	pages* received by this Authority on received by this Authority on	
	the claims: pages as amended (together very gages* as Authority on)	
	pages* received by this Authority on	
	pages* received by this Authority on	
3.	The amendments have resulted in the cancellation of: the description, pages the claims, Nos. the drawings, sheets the sequence listing (specify): any table(s) related to sequence listing (specify):	
4.	This report has been established as if (some of) the amendments annexed to this report made, since they have been considered to go beyond the disclosure as filed, as indicate (Rule 70.2(c)). the description, pages the claims, Nos. the drawings, sheets the sequence listing (specify): any table(s) related to sequence listing (specify):	ed in the Supplemental Box
* If iten	4 applies, some or all of those sheets may be marked "superseded."	

Form PCT/IPEA/409 (Box No. I) (April 2005)

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No. PCT/KR2005/000615

Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

1.	Statement			
	Novelty (N)	Claims	1 - 45	YES
		Claims	NONE	NO
	Inventive step (IS)	Claims	1 - 45	YES
		Claims	NONE .	NO
Industrial applicabi	Industrial applicability (IA)	Claims	1 - 45	YES
	•	Claims	NONE	NO

2. Citations and explanations (Rule 70.7)

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Reference is made to the following documents:

D: IEEE Standard 802.16: A Technical Overview of the WirelessMAN Air Interface for Broadband Wireless Access (Eklund, C.; Marks, R.B.; Stanwood, K.L.; Wang, S.; Communications Magazine, IEEE Volume 40, Issue 6, June 2002 Page(s):98 - 107)

1. Independent claims 1, 2, 21, 22, 31, 39 and 42

D overviews the technical medium access control and physical layer features of IEEE Standard 802.16. But D does not disclose: a method for a base station to manage a traffic encryption key for encrypting traffic data for a multicast service or a broadcast service provided to a subscriber station in a wireless portable Internet system of claims 1 and 2: a method for a subscriber station to manage a traffic encryption key for decrypting traffic data for a multicast service or a broadcast service received from a base station in a wireless portable Internet system of claims 21 and 22: a method for configuring a protocol for managing a traffic encryption key for encryption or decryption of traffic data for a multicast service or a broadcast service transmitted and received between a subscriber station and a base station in a wireless portable internet system of claim 31: an operation method of a traffic encryption key state machine provided to a subscriber station and used for the subscriber station to manage a traffic encryption key for decrypting traffic data received from a base station for a multicast service or a broadcast service of claim 39: and an operation method of a traffic encryption key state machine existing in a subscriber station and used for the subscriber station to manage a traffic encryption key for decrypting traffic data received from a base station for a multicast service or a broadcast service of claim 42.

Therefore, independent claims 1, 2, 21, 22, 31, 39 and 42 are considered to be new and to involve an inventive step(PCT 33(2), (3)), since the prior art does not teach or suggest the specifically claimed inventions..

2. Dependent claims 3-20, 23-30, 32-38, 40, 41 and 43-45

Dependent claims 3-20, 23-30, 32-38, 40, 41 and 43-45 satisfy the requirements for novelty and inventive step(PCT 33(2), (3)).